

BS group Bitumen Emulsion K1-60

Cationic Bitumen Emulsion Rapid setting



Introduction

Bituminous asphalt emulsion K1-60 is a rapid setting cationic asphalt, which has positive charge leading reaction between the emulsion and pavement. It contains 57% bitumen. 1 denoted as rapid braking. The primer bitumen which is used for emulsification is obtained from crude oil.

Bitumen emulsion K1-60 is in chocolate brown in color and is a free flowing liquid at ambient temperature.

The main applications asphalt emulsion K1- 60 are pavement construction, surface dressing and tack coat.

Typical properties of Bitumen emulsion K1-60

BS group K1-60 cationic bitumen emulsion is made according to KS 02-769: 1990 standard and Malaysian Standard, MS 1.61 (1994).

No	Property	Result
1	Particle charge	Pos.
2	Residue on 710 um KS sieve (%) (m/m), maximum	0.05
3	Residue on 150 um KS sieve (g per 100 mL), maximum	0.15
4	Binder content (%) (m/m), minimum	57
5	Viscosity (degrees Engler (°E) at 20°C	6-9
6	Viscosity redwood No. II (s at 85°C)	–
7	Storage stability (long period test) % water content difference, maximum	2

Advantages

At the following you can find some advantages of this product:

- Environment friendly
- No heating required
- Cost efficient
- Easy and uniform spray
- Low temperature curing, fast setting time
- High adhesive properties

- Prevents slippage of structural layers

Applications

Bitumen Emulsion K1-60 is primarily used as a tack coat, to provide a bond between the existing surface

and overlays e.g hot rolled asphalt, macadam and slurry seals, or between courses in road construction.

Bitumen Emulsion K1-60, because of its higher bitumen content, is generally used for surface dressing, patching, retread, and other similar applications.

- Treatments and seals:
- Single surface treatment
- Multiple surface treatment
- Sand seal

Recommended Rate of Application


Application	Quantity in Kg/10 m ² Area
Bitumen Surface	2 – 2.5
Aged Bitumen Surface	2.5 – 3
Primed Surface	2.5 – 3
Non Bitumen Surface	
Granular Base (Not Primed)	3.5 – 4.0
Cement Concrete Pavement	3.0 – 3.5

To Ensure Best Result

- Use without diluting Bitumen Emulsion with water
- Use at ambient temperature
- Roll the Bitumen Emulsion drums to and fro motion at a distance of minimum 5 meter

Handling and safety

- Contains petroleum distillate; flammable: keep away from open fire, sparks or other ignition sources; wear protective clothing, gloves and goggles.
- Fire flammable when wet, flash point 40°C.
- Skin –avoid repeated or prolonged contact, if occurs remove with hand cleaner that removes oil or grease, then clean with soap and water.
- Eyes contact could cause irritation, if contact occurs flush immediately with clean water.

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- Inhalation can cause dizziness, move immediately in fresh air if dizzy and if breathing difficulty persists administer oxygen.

Cleaning

Tools: Clean with kerosene.

Hands: Use a hand cleanser or kerosene followed by soap and water.

Availability

BS group Bitumen Emulsion K1-60 is available in:

- Bulk
- IBC Tank, Flexi Tank
- Reconditioned steel drums 220 lit., Net Weight: 200 ± 3 Kg
- New steel drums 220 lit., Net Weight: 200 ± 3 Kg